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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the

application:

Listing of Claims:

(Currently Amended) A powertrain of a vehicle having wheels, the powertrain 1.

comprising

- a thermal engine having an output shaft, which when required can be

mechanically connected to at least one of the wheels for driving the at least one of the

wheels.

an energy storage device,

- an electric motor, which is mechanically connected to the thermal engine or to

the at least one wheel and which is electrically connected to the energy storage device

and is supplied with electric power from the energy storage device for supplying or

receiving mechanical power or torque when required,

wherein at least part of filtered air from an air filter of the thermal engine is made

to pass in such a way that at least part of the electric motor will obtain cooling from the

filtered air.

2. (Original) A powertrain according to claim 1, wherein at least part of the filter air

is made to pass through an airgap of the electric motor.

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3. (Original) A powertrain according to any of claims 1-2, wherein at least part of

the air is made to pass along permanent magnets of the electric motor.

4. (Original) A powertrain according to claims 1-2, wherein at least part of the air is

made to pass between windings of the electric motor.

5. (Cancelled)

6. (Previously Presented) A powertrain of a vehicle having wheels, the powertrain

including a thermal engine and an electric motor for selectively driving at least one of

the wheels, the electric motor comprising:

- an inlet for receiving filtered air from an air filter of the thermal engine; and

- channels for receiving said filtered air and making it pass in such a way that at least

part of the electric motor will obtain cooling from said filtered air.

7. (Previously Presented) The powertrain of claim 6, wherein said channels

include an airgap between a stator and a rotor of the electric motor.

8. (Previously Presented) The powertrain of claim 6, wherein said channels

include channels passing along permanent magnets of the electric motor.

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9. (Previously Presented) The powertrain of claim 6, wherein said channels

include channels passing between windings of the electric motor.

10. (Currently Amended) The powertrain of claim 6 further comprising an energy

storage device, the thermal engine having an output shaft, which when required can be

mechanically connected to said at least one of the wheels for driving it the wheel, the

electric motor mechanically connected to the output shaft of the thermal engine or to

said at least one of the wheels and electrically connected to the energy storage device

for being supplied with electric power from the energy storage device for supplying

mechanical power or torque when required or for receiving mechanical power or torque

for supplying electric power to the energy storage device.

11. (Currently Amended) In a vehicle having wheels and a powertrain including a

thermal engine and a electric motor for selectively driving at least one wheel of the

vehicle, a method of cooling the electric motor comprising:

- passing air for supply a flow of air to the thermal engine through an air filter to produce

filtered air; and

- providing at least part of the filtered air from the air filter to the electric motor to provide

cooling thereof.

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filtered air is made to flow through an airgap between a stator and rotor of the electric

(Previously Presented) The method of claim 11, wherein at least part of the

motor.

12.

13. (Previously Presented) The method of claim 11, wherein at least part of the

filtered air is made to flow along permanent magnets of the electric motor.

14. (Previously Presented) The method of claim 11, wherein at least part of the

filtered air is made to flow between windings of the electric motor.